

CHROMTECH CHIRAL HPLC COLUMNS

These protein-based columns are suitable for several types of compounds; basic compounds can be separated on both CHIRAL-AGP and CHIRAL-CBH, acidic and neutral compounds can be separated on both CHIRAL-AGP and CHIRAL-HSA. However, as CHIRAL-AGP is a column with an extremely broad applicability, this column should be chosen first, if the analyte has not been separated on any of the columns. There are, however, some types of compounds where one of the other columns may be the first choice :

CHIRAL-AGP

Extremely broad applicability. We believe that this chiral phase is one of the broadest analytical selectivities of any chiral phase. Separates all kinds of compounds :

- amines (primary, secondary, tertiary and quaternary)
- acids (strong and weak)
- nonprotolytes (amides, esters, alcohols)

CHIRAL-CBH

Narrower applicability than CHIRAL-AGP. Separates compounds containing one or more basic nitrogens together with one or more hydrogen accepting or hydrogen donating groups (alcohol, phenol, carbonyl, amide, ether, sulphoxide, ester, etc.).

CHIRAL-HSA

Narrower applicability than CHIRAL-AGP. Separates preferentially weak and strong acids and non-protolytic compounds.



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CHROMTECH CHIRAL-AGP

CHIRAL-AGP is the second generation chiral separation column based on the use of α_1 -acid glycoprotein (AGP) as the CSP. Through a patented process α_1 -AGP has been immobilized on porous, spherical silica particles (5 μ m). The surface chemistry of the silica proves a stable chiral separation material with extremely broad applicability.

• ENANTIOSELECTIVITY

Racemic amines, acids and nonprotolytic compounds can be resolved directly, without derivatization. The column enables resolution of a very large number of chiral compounds from different compound classes. This is due to the unique nature of the CSP, and the fact that enantioselectivity can be induced by choosing a proper mobile phase composition.

| Reference | Product Name | Column Length (mm) | Internal Diameter (mm) | Particle Size (μ m) | Product Type |
|-----------|--------------|--------------------|------------------------|--------------------------|--------------|
|-----------|--------------|--------------------|------------------------|--------------------------|--------------|

• CHROMTECH CHIRAL-AGP COLUMNS 5 μ m

| | | | | | |
|-------|--------------------|-----|----|---|-----------------------|
| 30713 | CHIRAL-AGP | 100 | 4 | 5 | Analytical |
| 30714 | CHIRAL-AGP | 150 | 4 | 5 | Analytical |
| 30712 | CHIRAL-AGP | 50 | 4 | 5 | Analytical |
| 30783 | CHIRAL-AGP | 100 | 3 | 5 | Analytical |
| 30784 | CHIRAL-AGP | 150 | 3 | 5 | Analytical |
| 30782 | CHIRAL-AGP | 50 | 3 | 5 | Analytical |
| 30793 | CHIRAL-AGP | 100 | 2 | 5 | Analytical |
| 30794 | CHIRAL-AGP | 150 | 2 | 5 | Analytical |
| 30792 | CHIRAL-AGP | 50 | 2 | 5 | Analytical |
| 30733 | CHIRAL-AGP | 100 | 10 | 5 | Semi-Prep |
| 30734 | CHIRAL-AGP | 150 | 10 | 5 | Semi-Prep |
| 30781 | CHIRAL-AGP (2/pkg) | 10 | 3 | 5 | Guard Cartridges (x2) |
| 30791 | CHIRAL-AGP (2/pkg) | 10 | 2 | 5 | Guard Cartridges (x2) |
| 30711 | CHIRAL-AGP (2/pkg) | 10 | 4 | 5 | Guard Cartridges (x2) |



CHROMTECH CHIRAL-CBH

Cellobiohydrolase (CBH) is a stable enzyme which has been immobilized onto 5 μm spherical silica particles creating the Chiral Stationary Phase in the **CHIRAL-CBH** column. This is also a reverse phase column, used for the direct separation of enantiomers. The column is preferentially used for the separation of the enantiomers of basic drugs from many compound classes.

| Reference | Product Name | Column Length (mm) | Internal Diameter (mm) | Particle Size (μm) | Product Type |
|--|--------------------|--------------------|------------------------|---------------------------------|-----------------------|
| • CHROMTECH CHIRAL-CBH COLUMNS 5 μm | | | | | |
| 33713 | CHIRAL-CBH | 100 | 4 | 5 | Analytical |
| 33714 | CHIRAL-CBH | 150 | 4 | 5 | Analytical |
| 33712 | CHIRAL-CBH | 50 | 4 | 5 | Analytical |
| 33783 | CHIRAL-CBH | 100 | 3 | 5 | Analytical |
| 33784 | CHIRAL-CBH | 150 | 3 | 5 | Analytical |
| 33782 | CHIRAL-CBH | 50 | 3 | 5 | Analytical |
| 33793 | CHIRAL-CBH | 100 | 2 | 5 | Analytical |
| 33794 | CHIRAL-CBH | 150 | 2 | 5 | Analytical |
| 33792 | CHIRAL-CBH | 50 | 2 | 5 | Analytical |
| 33733 | CHIRAL-CBH | 100 | 10 | 5 | Semi-Prep |
| 33734 | CHIRAL-CBH | 150 | 10 | 5 | Semi-Prep |
| 33781 | CHIRAL-CBH (2/pkg) | 10 | 3 | 5 | Guard Cartridges (x2) |
| 33791 | CHIRAL-CBH (2/pkg) | 10 | 2 | 5 | Guard Cartridges (x2) |
| 33711 | CHIRAL-CBH (2/pkg) | 10 | 4 | 5 | Guard Cartridges (x2) |

CHROMTECH CHIRAL-HSA

The chiral selector in this stationary phase is human serum albumin (HSA). The protein has been immobilized onto spherical 5 μ m particles. Enantiomers of preferentially acidic compounds can be resolved directly, without derivatization. The column is operated in the reverse phase mode. With the **CHIRAL-HSA** column, both racemic acids and amino acids can be resolved directly, without derivatization.

| Reference | Product Name | Column Length (mm) | Internal Diameter (mm) | Particle Size (μ m) | Product Type |
|---|--------------------|--------------------|------------------------|--------------------------|-----------------------|
| • CHROMTECH CHIRAL-HSA COLUMNS 5 μm | | | | | |
| 34713 | CHIRAL-HSA | 100 | 4 | 5 | Analytical |
| 34714 | CHIRAL-HSA | 150 | 4 | 5 | Analytical |
| 34712 | CHIRAL-HSA | 50 | 4 | 5 | Analytical |
| 34783 | CHIRAL-HSA | 100 | 3 | 5 | Analytical |
| 34784 | CHIRAL-HSA | 150 | 3 | 5 | Analytical |
| 34782 | CHIRAL-HSA | 50 | 3 | 5 | Analytical |
| 34793 | CHIRAL-HSA | 100 | 2 | 5 | Analytical |
| 34794 | CHIRAL-HSA | 150 | 2 | 5 | Analytical |
| 34792 | CHIRAL-HSA | 50 | 2 | 5 | Analytical |
| 34733 | CHIRAL-HSA | 100 | 10 | 5 | Semi-Prep |
| 34734 | CHIRAL-HSA | 150 | 10 | 5 | Semi-Prep |
| 34781 | CHIRAL-HSA (2/pkg) | 10 | 3 | 5 | Guard Cartridges (x2) |
| 34791 | CHIRAL-HSA (2/pkg) | 10 | 2 | 5 | Guard Cartridges (x2) |
| 34711 | CHIRAL-HSA (2/pkg) | 10 | 4 | 5 | Guard Cartridges (x2) |

ACCESSORIES FOR CHROMTECH COLUMNS

| Reference | Product Name | Particle Size (μ) | Product Type |
|-----------|--|----------------------------|----------------------------|
| 00081 | GUARD CARTRIDGE HOLDER | \ | Holder for guard cartridge |
| CG000D1 | GUARD COLUMN COUPLER (4 mm) I.D. | \ | Coupler |
| CG000D2 | GUARD COLUMN COUPLER MICRO (3 mm, 2 mm) I.D. | \ | Coupler |