

## Product datasheet for PH302514

### CHST12 (NM\_018641) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | CHST12 MS Standard C13 and N15-labeled recombinant protein (NP_061111) |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC202514   |
| Predicted MW:                         | 48.4 kDa   |
| Protein Sequence:                     | >RC202514 protein sequence<br>Red=Cloning site Green=Tags(s)           |

MTKARLFRLWLVLGVSFMILLIIYVWDSAGAAHFYLHTSFSRPHTGPPLPTPGPDRDRELTADSDVDFL  
DKFLSAGVKQSDLPRKETEQPPAPGSMEESVRGYDWSPRDARRSPDQGRQQAERRSVLRGFCANSSLAFF  
TKERAFDDIPNSELSHLIVDDRHGAIYCYVPKACTNWKRMIVLSGSLLRGAPYRDPLRIPREHVHNA  
SAHLTFNKFWRRYGKLSRHLMKVKLKKYTKFLFVRDPFVRLISAFRSKFELENEEFYRKFVAVPMLRLYAN  
HTSLPASAREAFRAGLKVSFANFIQYLLDPHTEKLAPFNEHWRQVYRLCHPCQIDYDFVGKLETLDDEAA  
QLLQLLQVDRQLRFPPSYRNRTASSWEEDWFAKIPLAWRQQLYKLYEADFVLFGYPKPENLLRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                  |  |
|------------------|--|
| Tag:             | C-Myc/DDK  |
| Purity:          | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Concentration:   | >0.05 µg/µL as determined by microplate BCA method   |
| Labeling Method: | Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine |
| Buffer:          | 25 mM Tris-HCl, 100 mM glycine, pH 7.3   |
| Storage:         | Store at -80°C. Avoid repeated freeze-thaw cycles.   |
| Stability:       | Stable for 3 months from receipt of products under proper storage and handling conditions.   |
| RefSeq:          | <u><a href="#">NP_061111</a></u>   |
| RefSeq Size:     | 2159   |
| RefSeq ORF:      | 1242   |
| Synonyms:        | C4S-2; C4ST-2; C4ST2   |
| Locus ID:        | 55501  |



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UniProt ID: [Q9NRB3](#), [A0A024R860](#)

Cytogenetics: 7p22.3

**Summary:** The protein encoded by this gene belongs to the sulfotransferase 2 family. It is localized to the golgi membrane, and catalyzes the transfer of sulfate to position 4 of the N-acetylgalactosamine (GalNAc) residue of chondroitin and desulfated dermatan sulfate. Chondroitin sulfate constitutes the predominant proteoglycan present in cartilage, and is distributed on the surfaces of many cells and extracellular matrices. Alternatively spliced transcript variants differing only in their 5' UTRs have been found for this gene. [provided by RefSeq, Aug 2011]

**Protein Families:** Transmembrane

**Protein Pathways:** Chondroitin sulfate biosynthesis, Sulfur metabolism

### Product images:



Coomassie blue staining of purified CHST12 protein (Cat# [TP302514]). The protein was produced from HEK293T cells transfected with CHST12 cDNA clone (Cat# [RC202514]) using MegaTran 2.0 (Cat# [TT210002]).