

Recombinant Human ASTL Protein (24-431 aa), His-Myc-tagged

Cat. No. ASTL-2574H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ASTL Protein (24-431 aa) is produced by E. coli expression system. This protein is fused with a 10xHis tag at the N-terminal and a Myc tag at the C-terminal. Research Area: Signal Transduction. Protein Description: Full Length of Mature Protein.
Species	Human
Source	E.coli
ProteinLength	24-431 aa
Description	Oocyte-specific oolemmal receptor involved in sperm and egg adhesion and fertilization. Plays a role in the polyspermy inhibition. Probably acts as a protease for the post-fertilization cleavage of ZP2. Cleaves the sperm-binding ZP2 at the surface of the zona pellucida after fertilization and cortical granule exocytosis, rendering the zona pellucida unable to support further sperm binding.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	50.6 kDa
AA Sequence	APLASSCAGACGTSFPDGLTPEGTQASGDKDIPAINQGLILEETPESSFLIEGDIIRPS PFRLLSATSNKWPMGGSGVVEVPFLLSSKYDEPSRQVILEALAEFERSTCIRFVTYQ DQRDFISIIPMYGCFSSVGRSGGMQVVSLAPTCLQKGRGIVLHELMHVLGFWHEHT

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RADRDYIRVNWNEILPGFEINFIKSQSSNMLTPYDYSSVMHYGRLAFSRRGLPTITP
 LWAPSVHIGQRWNLSASDITRVLKLYGCSPSGPRPRGRGSHAHSTGRSPAPASLSL
 QRLLEALSAESRSPDPSGSSAGGQVPAGPGESPHGWESPALKKLSAEASARQPQ
 TCLASSPRSRPGAGAPGVAQEQSWLAGVSTKPTVPSSEAGIQVPVPVQGSPALPGGC
 VPRNHFKGMSED

Purity > 85% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name [ASTL astacin-like metallo-endopeptidase \(M12 family\) \[Homo sapiens \]](#)

Official Symbol [ASTL](#)

Synonyms ASTL; astacin-like metallo-endopeptidase (M12 family); ovastacin; oocyte astacin; MGC129843;

Gene ID [431705](#)

mRNA Refseq [NM_001002036](#)

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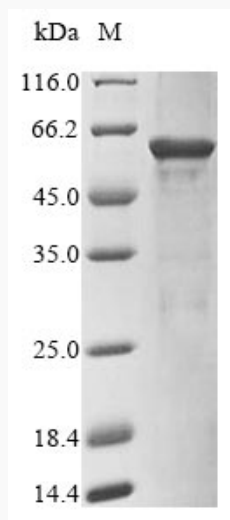
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Protein Refseq NP_001002036

MIM 608860

UniProt ID Q6HA08



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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