

Datasheet for ABIN7560866

Serine (Or Cysteine) Peptidase Inhibitor, Clade B, Member 1a (SERPINB1A) (AA 1-379) protein (His tag)



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Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | Serine (Or Cysteine) Peptidase Inhibitor, Clade B, Member 1a (SERPINB1A) |
| Protein Characteristics: | AA 1-379 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | His tag |

Product Details

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|------------------|---|
| Purpose: | Custom-made recombinant Serpinb1a Protein expressed in mammalian cells. |
| Sequence: | <p>MEQLSSANTL FALELFQTLN ESSPTGNIFF SPFSISSALA MVILGAKGST AAQLSKTFHF</p> <p>DSVEDIHSRF QSLNAEVSKR GASHTLKLAN RLYGEKTYNF LPEYLASTQK MYGADLAPVD</p> <p>FLHASEDARK EINQWVKGQT EGKIPPELLSV GVVDSMTKLK LVNAIYFKGM WEEKFMTEDT</p> <p>TDAPFRLSKK DTKTVKMMYQ KKKFPFGYIS DLKCKVLEMP YQGGELSMVI LLPKDIEDES</p> <p>TGLKKIEKQI TLEKLEWTK RENLEFIDVH VKLPRFKIEE SYTLNSNLGR LGVQDLFSSS</p> <p>KADLSGMSGSGS RDLFISKIVH KSFVEVNEEG TAAAAATGGI ATFCMLLPEE EFTVDHPFIF</p> <p>FIRHNPTSNV LFLGRVCSP Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p> |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. |
| Characteristics: | Key Benefits: |

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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|---------|---|
| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |

Target Details

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|-------------------|--|
| Target: | Serine (Or Cysteine) Peptidase Inhibitor, Clade B, Member 1a (SERPINB1A) |
| Alternative Name: | Serpinb1a (SERPINB1A Products) |
| Background: | <p>Leukocyte elastase inhibitor A (Serine protease inhibitor EIA) (Serpin B1a),FUNCTION: Neutrophil serine protease inhibitor that plays an essential role in the regulation of the innate immune response, inflammation and cellular homeostasis (PubMed:17664292, PubMed:21683252, PubMed:21248149, PubMed:30692621). Acts primarily to protect the cell from proteases released in the cytoplasm during stress or infection (PubMed:17664292). These proteases are important in killing microbes but when released from granules, these potent enzymes also destroy host proteins and contribute to mortality. Regulates the activity of the neutrophil proteases elastase, cathepsin G, proteinase-3, chymase, chymotrypsin, and kallikrein-3. Acts also as a potent intracellular inhibitor of granzyme H (PubMed:12189154). During inflammation, limits the activity of inflammatory caspases CASP1 and CASP4 by suppressing their caspase-recruitment domain (CARD) oligomerization and enzymatic activation (PubMed:30692621). In addition, promotes the proliferation of beta-cells when secreted (PubMed:26701651). {ECO:0000269 PubMed:12189154, ECO:0000269 PubMed:17664292, ECO:0000269 PubMed:21248149, ECO:0000269 PubMed:21683252,</p> |

Target Details

ECO:0000269|PubMed:26701651, ECO:0000269|PubMed:30692621}.

Molecular Weight: 42.6 kDa

UniProt: [Q9D154](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months