

Datasheet for ABIN7563349

SULT1E1 Protein (AA 1-295) (His tag)



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Overview

Quantity:	1 mg
Target:	SULT1E1
Protein Characteristics:	AA 1-295
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SULT1E1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Sult1e1 Protein expressed in mammalian cells.
Sequence:	<p>METSMPEYYE VFGEFRGVLM DKRFTKYWED VEMFLARPDD LVIATYPKSG TTWISEVVYM</p> <p>IYKEGDVEKC KEDAIENRIP YLECRNEDLI NGIKQLKEKE SPRIVKTHLP PKLLPASFW</p> <p>KNCKMIYLCR NAKDVAVSYY YFLLMITSYP NPKSFSEFVE KFMQGQVPYG SWYDHVKAWW</p> <p>EKSKNSRVLF MFYEDMKEDI RREVVKLIEF LERKPSAELV DRIIQHTSFQ EMKNNPSTNY</p> <p>TMMPEEMMNQ KVSPFMRKGI IGDWKNHFPE ALRERFDEHY KQQMKDCTVK FRMEL</p> <p>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.

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

Target Details

Target:	SULT1E1
Alternative Name:	Sult1e1 (SULT1E1 Products)
Background:	<p>Sulfotransferase 1E1 (ST1E1) (EC 2.8.2.4) (Estrogen sulfotransferase, testis isoform) (Sulfotransferase, estrogen-preferring),FUNCTION: Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of estradiol and estrone (By similarity) (PubMed:9765259). Is a key enzyme in estrogen homeostasis, the sulfation of estrogens leads to their inactivation. Also sulfates dehydroepiandrosterone, pregnenolone, (24S)-hydroxycholesterol and xenobiotic compounds like ethinylestradiol, equalenin, diethyl stilbesterol and 1-naphthol at significantly lower efficiency. Does not sulfonate cortisol, testosterone and dopamine (By similarity). May play a role in gut microbiota-host metabolic interaction. O-sulfonates 4-ethylphenol (4-EP), a dietary tyrosine-derived metabolite produced by gut bacteria. The product 4-EPS crosses the blood-brain barrier and may negatively regulate oligodendrocyte maturation and myelination, affecting the functional connectivity of different brain regions associated with the limbic system.</p> <p>{ECO:0000250 UniProtKB:P49888, ECO:0000269 PubMed:9765259}.</p>
Molecular Weight:	35.6 kDa

Target Details

UniProt:	P49891
Pathways:	Steroid Hormone Biosynthesis

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