

Estrogen Sulfotransferase Blocking Peptide
Catalog # PBV10378b**Specification**

Estrogen Sulfotransferase Blocking Peptide - Product Information

Primary Accession	P49888
Gene ID	6783
Calculated MW	35126

Estrogen Sulfotransferase Blocking Peptide - Additional Information**Gene ID** 6783**Application & Usage**

The peptide is used for blocking the antibody activity of EST. It usually blocks the antibody activity completely in Western blot analysis by incubating the peptide with equal volume of antibody for 30-60 minutes at 37°C.

Other Names

Estrogen sulfotransferase, 2.8.2.4, EST-1, Sulfotransferase 1E1, ST1E1, Sulfotransferase, estrogen-preferring, SULT1E1, STE

Target/Specificity

Estrogen Sulfotransferase

Formulation

50 µg (0.5 mg/ml) EST peptide in phosphate buffered saline (PBS), pH 7.2, containing 50% glycerol, 1% BSA and 0.02% thimerosal.

Reconstitution & Storage

-20 °C

Background Descriptions**Precautions**

Estrogen Sulfotransferase Blocking Peptide is for research use only and not for use in diagnostic or therapeutic procedures.

Estrogen Sulfotransferase Blocking Peptide - Protein Information**Name** SULT1E1**Synonyms** STE**Function**

Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze

the sulfate conjugation of estradiol and estrone (PubMed:7779757, PubMed:11884392, PubMed:11006110). Is a key enzyme in estrogen homeostasis, the sulfation of estrogens leads to their inactivation. Also sulfates dehydroepiandrosterone (DHEA), pregnenolone, (24S)-hydroxycholesterol and xenobiotic compounds like ethinylestradiol, equalenin, diethyl stilbesterol and 1-naphthol at significantly lower efficiency (PubMed:11006110, PubMed:19589875). Does not sulfonate cortisol, testosterone and dopamine (PubMed:7779757, PubMed:11006110). 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.

Cellular Location

Cytoplasm, cytosol.

Tissue Location

Liver, intestine and at lower level in the kidney.

Estrogen Sulfotransferase Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Estrogen Sulfotransferase Blocking Peptide - Images