

## SULT4A1 Protein, Human

<b>Cat. No.:</b>	HY-P71344
<b>Synonyms:</b>	Sulfotransferase 4A1; ST4A1; Brain Sulfotransferase-Like Protein; hBR-STL; hBR-STL-1; Nervous System Sulfotransferase; NST; SULT4A1; SULTX3
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	Q9BR01 (M1-L284)
<b>Gene ID:</b>	25830
<b>Molecular Weight:</b>	Approximately 34.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>           M A E S E A E T P S    T P G E F E S K Y F    E F H G V R L P P F    C R G K M E E I A N            F P V R P S D V W I    V T Y P K S G T S L    L Q E V V Y L V S Q    G A D P D E I G L M            N I D E Q L P V L E    Y P Q P G L D I I K    E L T S P R L I K S    H L P Y R F L P S D            L H N G D S K V I Y    M A R N P K D L V V    S Y Y Q F H R S L R    T M S Y R G T F Q E            F C R R F M N D K L    G Y G S W F E H V Q    E F W E H R M D S N    V L F L K Y E D M H            R D L V T M V E Q L    A R F L G V S C D K    A Q L E A L T E H C    H Q L V D Q C C N A            E A L P V G R G R V    G L W K D I F T V S    M N E K F D L V Y K    Q K M G K C D L T F            D F Y L         </p>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A
<b>Storage &amp; Stability</b>	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Shipping with dry ice.

### DESCRIPTION

<b>Background</b>	SULT4A1, a member of the atypical sulfotransferase family, exhibits notably low affinity for 3'-phospho-5'-adenylyl sulfate (PAPS) and displays minimal catalytic activity towards various substrates, including L-triiodothyronine, thyroxine, estrone, p-nitrophenol, 2-naphthylamine, and 2-beta-naphthol. Despite its limited catalytic efficiency, SULT4A1 may play a role in
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the metabolism of drugs and neurotransmitters within the central nervous system (CNS).

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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