

SULT1A2 Protein, Human (His)

Cat. No.:	HY-P71001
Synonyms:	Sulfotransferase 1A2; ST1A2; Aryl Sulfotransferase 2; Phenol Sulfotransferase 2; Phenol-Sulfating Phenol Sulfotransferase 2; P-PST 2; SULT1A2; STP2
Species:	Human
Source:	E. coli
Accession:	AAI13728.1 (M1-L295)
Gene ID:	6799
Molecular Weight:	Approximately 33.0 kDa

PROPERTIES

AA Sequence	<pre> M E L I Q D I S R P P L E Y V K G V P L I K Y F A E A L G P L Q S F Q A R P D D L L I S T Y P K S G T T W V S Q I L D M I Y Q G G D L E K C H R A P I F M R V P F L E F K V P G I P S G M E T L K N T P A P R L L K T H L P L A L L P Q T L L D Q K V K V V Y V A R N A K D V A V S Y Y H F Y H M A K V Y P H P G T W E S F L E K F M A G E V S Y G S W Y Q H V Q E W W E L S R T H P V L Y L F Y E D M K E N P K R E I Q K I L E F V G R S L P E E T V D L M V E H T S F K E M K K N P M T N Y T T V R R E F M D H S I S P F M R K G M A G D W K T T F T V A Q N E R F D A D Y A E K M A G C S L S F R S E L </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 100 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A
Storage & Stability	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.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	Sulfotransferase 1A2 (SULT1A2) is a phenol sulfotransferase with thermostable enzyme activity. SULT1A2 utilizes 3'-phospho-5'-adenyl sulfite (PAPS) as sulfonate donor to catalyze the sulfate conjugation of catecholamines, phenolic drugs and neurotransmitters. SULT1A2 is also responsible for the sulfonation and activation of minoxidil. SULT1A2 induces
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the mutagenicity and carcinogenicity of substrates, including nitrotoluenes, 3-nitrobenzanthrone, aristolochic acids, aromatic hydroxylamine and polycyclic aromatic hydrocarbons by influencing DNA adduct formation and plays a role in the chemical carcinogenesis of these substrates if SULT1A2 is expressed as a functional protein^{[1][2][3]}.

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

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