

SULT1C2 Protein, Human (His)

Cat. No.:	HY-P71012
Synonyms:	Sulfotransferase 1C2; ST1C2; Sulfotransferase 1C1; SULT1C#1; humSULTC2; SULT1C2; SULT1C1;
Species:	Human
Source:	E. coli
Accession:	O00338 (M1-L296)
Gene ID:	6819
Molecular Weight:	Approximately 38.0 kDa

PROPERTIES

AA Sequence	<pre> M A L T S D L G K Q I K L K E V E G T L L Q P A T V D N W S Q I Q S F E A K P D D L L I C T Y P K A G T T W I Q E I V D M I E Q N G D V E K C Q R A I I Q H R H P F I E W A R P P Q P S G V E K A K A M P S P R I L K T H L S T Q L L P P S F W E N N C K F L Y V A R N A K D C M V S Y Y H F Q R M N H M L P D P G T W E E Y F E T F I N G K V V W G S W F D H V K G W W E M K D R H Q I L F L F Y E D I K R D P K H E I R K V M Q F M G K K V D E T V L D K I V Q E T S F E K M K E N P M T N R S T V S K S I L D Q S I S S F M R K G T V G D W K N H F T V A Q N E R F D E I Y R R K M E G T S I N F C M 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 8.5.
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	SULT1C2 protein, a sulfotransferase utilizing 3'-phospho-5'-adenylyl sulfate (PAPS) as its sulfonate donor, plays a pivotal role in catalyzing sulfate conjugation, with a specific affinity for sulfonating p-nitrophenol, a small phenolic compound. Notably, SULT1C2 exhibits selectivity in its substrate preferences, as it does not sulfonate steroids, dopamine,
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acetaminophen, or alpha-naphthol. Additionally, this sulfotransferase catalyzes the sulfonation of N-Hydroxy-2-acetylaminofluorene, a carcinogenic compound, leading to the formation of highly reactive intermediates capable of generating DNA adducts. This enzymatic activity raises concerns about potential mutagenesis, emphasizing the intricate role of SULT1C2 in the metabolism of xenobiotic compounds and its implications for cellular processes associated with mutagenic risk.

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

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