

## SULT1A1 Protein, Rat, Recombinant (His &amp; Myc &amp; SUMO)

## General Information

Synonyms:	St1a1; Phenol sulfotransferase; Sulfotransferase 1A1; Tyrosine-ester sulfotransferase; Sulfokinase; PST-1; Aryl sulfotransferase IV (ASTIV); Aryl sulfotransferase; Minoxidil sulfotransferase (Mx-ST); Sult1a1
Protein Construction:	1-291 aa
Species:	Rat
Expression Host:	E. coli
Accession:	P17988
Molecular Weight:	53.9 kDa (predicted)
AA Sequence:	MEFSRPPLVHVKGIIPLIKYFAETIGPLQNFTAWPDDLLISTYPKSGTTWMSEILDMIYQGGKLEKCGRAPIYARV PFLEFKCPGVPSGLETLEETPAPRLLKTHLPLSLLPQSLLDQKVKVIYIARNADVVVSYYNFYNMAKLHPDPG TWDSFLENFMDGEVSYGSWYQHVKEWWELRHHPVLYLFYEDIKENPKREIKKILEFLGRSLPEETVDSIVHHT SFKKMKENCMTNYTTIPEIMDHNVSPPFMRKGTGDWKNFTVAQNERFDAHYAKTMTDCDFKFRCEL

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

## Preparation and Storage

## Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

## Stability &amp; Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

## Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

Sulfotransferase that utilizes 3'-phospho-5'-adenylyl sulfate (PAPS) as sulfonate donor to catalyze the sulfate conjugation of a wide variety of acceptor molecules bearing a hydroxyl or an amine group. Sulfonation increases

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the water solubility of most compounds, and therefore their renal excretion, but it can also result in bioactivation to form active metabolites. Displays broad substrate specificity for small phenolic compounds. Plays an important roles in the sulfonation of endogenous molecules such as steroid hormones and 3,3'-diiodothyronin. Mediates the sulfate conjugation of a variety of xenobiotics, including the drugs acetaminophen and minoxidil. Mediates also the metabolic activation of carcinogenic N-hydroxyarylamines leading to highly reactive intermediates capable of forming DNA adducts, potentially resulting in mutagenesis.

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