

Product Data Sheet

SULT2B1 Protein, Human (364a.a, His)

Cat. No.:	HY-P76666
Synonyms:	ST2B1; Sulfotransferase 2B1; Alcohol Sulfotransferase; HSST2
Species:	Human
Source:	E. coli
Accession:	O00204-1 (D2-S365)
Gene ID:	6820
Molecular Weight:	Approximately 44 kDa

PROPERTIES

AA Sequence				
AA Sequence	DGPAEPQIPG LWDTYEDDIS EISQKLPGEY FRYKG	VPFPV		
	GLYSLESISL AENTQDVRDD DIFIITYPKS GTTWM	IEIIC		
	LILKEGDPSW IRSVPIWERA PWCETIVGAF SLPDQ	YSPRL		
	MSSHLPIQIF TKAFFSSKAK VIYMGRNPRD VVVSL	ҮНҮЅК		
	IAGQLKDPGT PDQFLRDFLK GEVQFGSWFD HIKGW	LRMKG		
	KDNFLFITYE ELQQDLQGSV ERICGFLGRP LGKEA	LGSVV		
	AHSTFSAMKA NTMSNYTLLP PSLLDHRRGA FLRKG	VCGDW		
	KNHFTVAQSE AFDRAYRKQM RGMPTFPWDE DPEED	G S P D P		
	EPSPEPEPKP SLEPNTSLER EPRPNSSPSP SPGQA	SЕТРН		
	PRPS			
Riological Activity	pgical Activity Measured by its ability to transfer sulfate from PAPS to pregnenolone. The specific activity is ≥15.242 pmol/min/μg that incubate at 37 °C for 30 minutes.			
Biological Activity				
Appearance	Lyophilized powder			
TL · · · · ·	2.4 Construction			
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 0.1M NaCl, 10% Glycerol, pH 8.0 or 50 mM Tris-HCL, 300 mM NaC			
	pH 7.4, 10% glycerol.			
Endotoxin Level	<1 EU/µg, determined by LAL method.			
Reconsititution	econsititution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is			
	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).			
Storage & Stability	Storage & Stability Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is			
	recommended to freeze aliquots at -20°C or -80°C for extended storage.			
Shipping	Room temperature in continental US; may vary elsewhere.			

DESCRIPTION

Background

SULT2B1 protein, a sulfotransferase utilizing 3'-phospho-5'-adenylyl sulfate (PAPS) as its sulfonate donor, holds a pivotal role in catalyzing sulfate conjugation, with a primary responsibility for sulfating cholesterol. Additionally, SULT2B1 demonstrates significant activity in sulfating steroids, particularly the 3beta-hydroxyl groups of molecules such as pregnenolone and dehydroepiandrosterone (DHEA). While it exhibits a preferential sulfonation of cholesterol, it also displays substantial activity with pregnenolone and DHEA. Beyond its enzymatic functions, SULT2B1 plays a crucial role in epidermal cholesterol metabolism, contributing to the regulation of epidermal proliferation and differentiation. Notably, it sulfonates pregnenolone but not cholesterol, underscoring its substrate selectivity and emphasizing its multifaceted involvement in the intricate processes governing cholesterol homeostasis and steroid metabolism.

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

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