Recombinant human Sulfotransferase 1C4/SULT1C4 protein

Catalog Number: ATGP2110

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-302aa

UniProt No.
O75897

NCBI Accession No.
NP_006579

Alternative Names
Sulfotransferase family 1C member 4, Sulfotransferase 1C4, ST1C4, Sulfotransferase 1C2, SULT1C2, Sulfotransferase family cytosolic 1C member 2, Sulfotransferase family cytosolic 1C member 4, SULT1C

PRODUCT SPECIFICATION

Molecular Weight
37.6 kDa (322aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol, 1mM DTT

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
Sulfotransferase 1C4, also known as SuLT1C4, belongs to the SuLT subfamily, responsible for transferring a sulfo moiety from PAPS to phenol-containing compounds. Sulfotransferase enzymes catalyze the sulfate conjugation of many hormones, neurotransmitters, drugs, and xenobiotic compounds. These cytosolic enzymes are different in their tissue distributions and substrate specificities. SuLT1C4 catalyzes the sulfonation of p-nitrophenol and N-hydroxy-2-acetylaminofluorene, but not dopamine. Recombinant human SuLT1C4 protein, fused to His-tag at N-

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terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

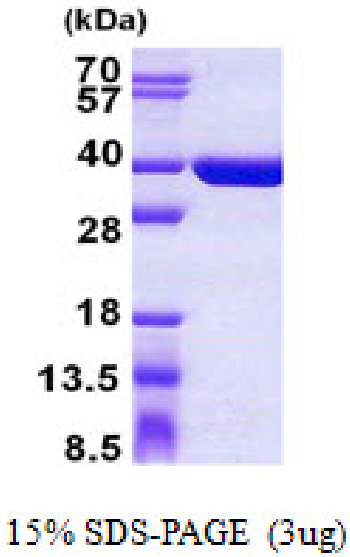
<MGSSHHHHHH SSGLVPRGSH> MALHDMEDFT FDGTKRLSVN YVKGILQPTD TCDIWDKIWN FQAKPDDLLI STYPKAGTTW TQEIVELIQN EGDVEKSKRA PTHQRFPFLE MKIPSLGSGL EQAHAMPSPR ILKTHLPFHL LPPSLLEKNC KIIYVARNPK DNMVSYYHFQ RMNKALPAPG TWEEYFETFL AGKVCWGSWH EHVKGWWEAK DKHRILYLFY EDMKKNPKHE IQKLAEFIGK KLDDKVLDKI VHYTSFDVMK QNPMANYSSI PAEIMDHSIS PFMRKGAVGD WKKHFTVAQN ERFDEDYKKK MTDTRLTFHF QF

General References

Sakakibara Y., et al. (1998) J Biol Chem. 273(51):33929-35

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.