

Recombinant Rat Ugt1a1 Protein, His-tagged

Cat. No. Ugt1a1-535R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Ugt1a1 Protein (Ile62-Ala170) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	Ile62-Ala170
Description	Enables enzyme binding activity and glucuronosyltransferase activity. Involved in several processes, including biphenyl catabolic process; cellular glucuronidation; and cellular response to lipid. Located in endoplasmic reticulum. Part of cytochrome complex. Used to study Crigler-Najjar syndrome and bilirubin metabolic disorder. Biomarker of hyperthyroidism; type 1 diabetes mellitus; and type 2 diabetes mellitus. Human ortholog(s) of this gene implicated in several diseases, including bilirubin metabolic disorder (multiple); cholecystolithiasis; cholelithiasis; female reproductive organ cancer (multiple); and hepatitis B. Orthologous to human UGT1A1 (UDP glucuronosyltransferase family 1 member A1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 15.9 kDa Accurate Molecular Mass: 14 kDa
Purity	> 90%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Ugt1a1 UDP glucuronosyltransferase 1 family, polypeptide A1 [Rattus norvegicus (Norway rat)]
Official Symbol	Ugt1a1
Synonyms	UGT1A1; UDP glucuronosyltransferase 1 family, polypeptide A1; UDP-glucuronosyltransferase 1-1; B1; UGT1*1; UGT1.1; UGT1-01; UDP-glucuronosyltransferase 1A1; UDP-glucuronosyltransferase 1 family member 1; UDP glycosyltransferase 1 family, polypeptide A1; Ugt1; Udpgt; UDPGT 1-1
Gene ID	24861
mRNA Refseq	NM_012683
Protein Refseq	NP_036815

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UniProt ID

Q64550

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