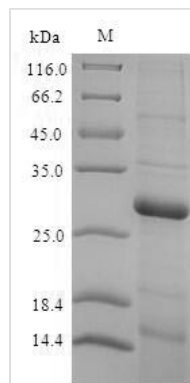




Recombinant Rat Thyroxine 5-deiodinase (Dio3), partial (170:U→missing)

Product Code	CSB-EP344617RA
Relevance	Responsible for the deiodination of T4 (3,5,3',5'-tetraiodothyronine) into RT3 (3,3',5'-triiodothyronine) and of T3 (3,5,3'-triiodothyronine) into T2 (3,3'-diiodothyronine). RT3 and T2 are inactive metabolites. May play a role in preventing prature exposure of developing fetal tissues to adult levels of thyroid hormones. Can regulate circulating fetal thyroid hormone concentrations throughout gestation. Essential role for regulation of thyroid hormone inactivation during bryological development.
Abbreviation	Recombinant Rat Dio3 protein (170:U→missing), partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P49897
Product Type	Recombinant Proteins
Immunogen Species	Rattus norvegicus (Rat)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	DFLCIRKHFLRRRHPDHPEPEVELNSEGEEMPDPDPICVSDDNRLCTLASLK AVWHGQKLDFFKQAHEGGPAPNSEVVRPDGFGSQRILDYAQGTRPLVLNFG SCTUPPFMARMSAFQRLVTKYQRDVFLLIYIEEAHPSDGWVTTDSPYVIPQHR SLEDRVSAARVLQQGAPGCALVLDTMANSSSSAYGAYFERLYVIQSGTIMYQG GRGPDGYQVSELRTWLERYDEQLHGTRPRRL
Research Area	Others
Source	E.coli
Target Names	Dio3
Expression Region	63-304aa(170:U→missing)
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	31.5kDa
Protein Length	Extracellular Domain
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Enhance your endocrinology studies with our premium Recombinant Rat Dio3. This protein, also known as Thyroxine 5-deiodinase, plays a pivotal role in the conversion of thyroid hormone, impacting various physiological processes. By employing this protein in your research, you can delve deeper into thyroid hormone regulation and its associated disorders.

This particular version of Dio3, engineered in E.coli, showcases the extracellular domain with an expression region ranging from the 63rd to the 304th amino acid. Due to its close simulation of native protein conditions, this construct can provide more accurate and relevant results. A modification to note in the sequence is the missing amino acid at the 170th position (U→missing). To ensure smooth purification and detection, we have incorporated a N-terminal 6xHis-tag. Rest assured, this protein comes with a purity greater than 90% as established by SDS-PAGE, ensuring high performance in your experimental applications. Choose from a liquid or lyophilized powder form, according to your research needs. Experience the precision and quality of our Recombinant Rat Dio3 in your research journey.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

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