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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

DIO3 (Human) Recombinant Protein (P01)

Catalog Number: H00001735-P01

Regulation Status: For research use only (RUO)

Product Description: Human DIO3 full-length ORF (AAH17717, 1 a.a. - 143 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

MLRSLLLHSLRLCAQTASCLVLFPRFLGTAFMLWLLDF
LCIRKHFLGRRRRGQPEPEVELNSEGEEVPPDDPPIC
VSDDNRLCTLASLKAVWHGQKLDFFKQAHEGGPAPN
SEVVLPDGFQSQHILDYAQGNRPLVLNFGSCT

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 41.47

Interspecies Antigen Sequence: Mouse (93); Rat (93)

Applications: AP, Array, ELISA, WB-Re
(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Preparation Method: [in vitro wheat germ expression system](#)

Purification: Glutathione Sepharose 4 Fast Flow

Storage Buffer: 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction: Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 1735

Gene Symbol: DIO3

Gene Alias: 5DIII, D3, DIOIII, TXDI3

Gene Summary: The protein encoded by this intronless gene belongs to the iodothyronine deiodinase family. It

catalyzes the inactivation of thyroid hormone by inner ring deiodination of the prohormone thyroxine (T4) and the bioactive hormone 3,3',5'-triiodothyronine (T3) to inactive metabolites, 3,3',5'-triiodothyronine (RT3) and 3,3'-diiodothyronine (T2), respectively. This enzyme is highly expressed in the pregnant uterus, placenta, fetal and neonatal tissues, suggesting that it plays an essential role in the regulation of thyroid hormone inactivation during embryological development. This protein contains a selenocysteine (Sec) residue, which is essential for efficient enzyme activity. The selenocysteine is encoded by the UGA codon, which normally signals translation termination. The 3' UTR of Sec-containing genes have a common stem-loop structure, the sec insertion sequence (SECIS), which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. [provided by RefSeq]