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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Datasheet

CYP1A2 (Human) Recombinant Protein (Q01)

Catalog Number: H00001544-Q01

Regulation Status: For research use only (RUO)

Product Description: Human CYP1A2 partial ORF (NP_000752, 211 a.a. - 310 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence:

ESSDEMLSLVKNTHEFVETASSGNPLDFFPILRYLPNP
ALQRFKAFNQRFLWFLQKTQEHYQDFDKNSVRDITG
ALFKHSSKKGPRASGNLIPQEKIVNL

Host: Wheat Germ (in vitro)

Theoretical MW (kDa): 36.74

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: 1544

Gene Symbol: CYP1A2

Gene Alias: CP12, P3-450, P450(PA)

Gene Summary: This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids.

The protein encoded by this gene localizes to the endoplasmic reticulum and its expression is induced by some polycyclic aromatic hydrocarbons (PAHs), some of which are found in cigarette smoke. The enzyme's endogenous substrate is unknown; however, it is able to metabolize some PAHs to carcinogenic intermediates. Other xenobiotic substrates for this enzyme include caffeine, aflatoxin B1, and acetaminophen. The transcript from this gene contains four Alu sequences flanked by direct repeats in the 3' untranslated region. [provided by RefSeq]

References:

1. Simultaneous absolute quantification of 11 cytochrome P450 isoforms in human liver microsomes by liquid chromatography tandem mass spectrometry with In silico target peptide selection. Kawakami H, Ohtsuki S, Kamiie J, Suzuki T, Abe T, Terasaki T. J Pharm Sci. 2010 Jun 16. [Epub ahead of print]