Datasheet for ABIN5564467

PARP1 Protein (Glu988Lys-Mutant) (HA tag,His tag)

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Overview

Quantity:	10 µg
Target:	PARP1
Protein Characteristics:	Glu988Lys-Mutant
Origin:	Human
Source:	Insect cells (Sf21)
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PARP1 protein is labelled with HA tag,His tag.
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	PARP-1 [ARTD1] (E998K Mutant) (human) (rec.) Control
Cross-Reactivity:	Human
Characteristics:	Human full-length inactive mutant E988K of PARP-1 is fused to a HA-tag and a His-tag.
Purity:	>95 % (SDS-PAGE)
Biological Activity Comment:	0.5% of wild type PARP-1.

Target Details

Target:	PARP1
Alternative Name:	PARP-1 [ARTD1] (PARP1 Products)

Target Details

Background:	Poly(ADP-ribose) Polymerase 1, ADP-ribosyltransferase Diphtheria Toxin-like 1, NAD(+) ADP-ribosyltransferase 1 PARP-1 (ARTD1) is involved in the base excision repair (BER) pathway, by catalyzing the poly(ADP-ribosyl)ation of a limited number of acceptor proteins involved in chromatin architecture and in DNA metabolism. This modification follows DNA damages and appears as an obligatory step in a detection/signaling pathway leading to the reparation of DNA strand breaks. PARP-1 positively regulates the transcription of MTUS1 and negatively regulates the transcription of MTUS2/TIP150. It forms a complex with EEF1A1 and TXK that acts as a T-helper 1 (Th1) cell-specific transcription factor and binds the promoter of IFN-gamma to directly regulate its transcription, and is thus involved importantly in Th1 cytokine production. PARP-1 (E988K mutant) is an inactive form of PARP-1 which can be used as a control compound.
UniProt:	P09874
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, DNA Damage Repair, Production of Molecular Mediator of Immune Response, Maintenance of Protein Location

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	In 50 mM TRIS-HCl, pH 7.5, containing 100 mM sodium chloride and 50 mM imidazole, 0.2 % NP-40 and 10 % glycerol.
Handling Advice:	After opening, prepare aliquots and store at -80 °C. Avoid freeze/thaw cycles.
Storage:	-20 °C,-80 °C
Storage Comment:	Short Term Storage: -20°C Long Term Storage: -80°C Use & Stability: Stable for at least 6 months after receipt when stored at -80°C.
Expiry Date:	6 months