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Human recombinant OGG1 (8-oxoguanine DNA glycosylase) protein, AF

Catalog Number: PROTO15527-2

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Overview

Product Name	Human recombinant OGG1 (8-oxoguanine DNA glycosylase) protein, AF
Description	8-oxoguanine DNA glycosylase-1 (OGG1) is a major DNA glycosylase that plays a critical role in n base-excision repair (BER) of oxidative DNA damage to nuclear and mitochondrial DNA (mtDNA) to remove 7,8-dihydro-8-oxo-2′-deoxyguanosine (8-OH-dG). OGG1 is a 38.8 kDa protein containing 52 amino acid it found in bacterial, archaeal and eukaryotic species. OGG1 in DNA causes G:C to T:A transversions and, therefore, it could be responsible for mutations that lead to carcinogenesis.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 7.4. If you have any concerns or special requirements, please confirm with us.

Storage

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 39.61 kDa. The protein migrates as 40 kDa under reducing condition (SDS-PAGE analysis).

Activity

Testing in process

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Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MPARALLPRRMGHRTLASTPALWASIPCPRSELRLDLVLPSGQSFRWREQSPAHWSGVLADQVWTLTQTEEQLHCTVYRGDKSQASRPTPDELEAVRK YFQLDVTLAQLYHHWGSVDSHFQEVAQKFQGVRLLRQDPIECLFSFICSSNNNIARITGMVERLCQAFGPRLIQLDDVTYHGFPSLQALAGPEVEAHLRK LGLGYRARYVSASARAILEEQGGLAWLQQLRESSYEEAHKALCILPGVGTKVADCICLMALDKPQAVPVDVHMWHIAQRDYSWHPTTSQAKGPSPQT NKELGNFFRSLWGPYAGWAQAVLFSADLRQCRHAQEPPAKRRKGSKGPEG with polyhistidine tag at the C-terminus

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H_2O to a concentration not less than 100 ug/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

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Usage

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