

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

Catalog Number: PROTO15527-2

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

Endotoxin

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

Amino Acid Sequence

MPARALLPRRMGHRTLASTPALWASIPCRSELRLDLVLP SGQSFRWREQSPAHW SGVLADQVWTLTQT EEQLHCTVYRGDKS QASRPTPDELEAVRK
YFQLDVT LAQLYHHWGSVD SHFQEVAQKFQGVRLLRQDPIECLFSFICSSNNNIARITGMVERLCQAFGPRLIQLDDVTYHGFPSLQALAGPEVEAHLRK
LGLGYRARYVSASARAILEEQGGLAWLQQLRESSYEEAHKALCILPGVGTKVADCICLMALDKPQAVPVDVHMWHIAQRDYSWHPTTSQAKGPSPQT
NKE LGNFFRSLWGPYAGWAQAVLFSADLRQCRHAQEPPAKRRKGSKGPEG 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 H₂O 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.

Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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