

## Recombinant Human BBOX1/Gamma-BBH Protein (His & GST Tag)

Catalog Number: PKSH030526

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

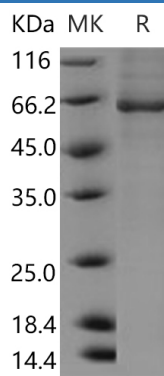
### Description

<b>Species</b>	Human
<b>Source</b>	Baculovirus-Insect Cells-derived Human BBOX1/Gamma-BBH protein Met 1-Asn387, with an N-terminal His & GST
<b>Calculated MW</b>	72.5 kDa
<b>Observed MW</b>	65 kDa
<b>Accession</b>	O75936
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 85 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 8.0 Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 85 % as determined by reducing SDS-PAGE.

### Background

BBOX1, also known as gamma-BBH, belongs to the gamma-BBH/TMLD family. It is highly expressed in kidney and moderately expressed in liver. BBOX1 catalyzes the formation of L-carnitine from gamma-butyrobetaine, the last step in the L-carnitine biosynthetic pathway. Carnitine is essential for the transport of activated fatty acids across the mitochondrial membrane during mitochondrial beta-oxidation. BBOX1 is an inhibition target for mildronate which can be used to treat angina and myocardial infarction. Mildronate may also be beneficial for the treatment of neurological disorder, diabetes, and seizures and alcohol intoxication.

### For Research Use Only