

## Product datasheet for PH309655

### ENSA (NM\_207168) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ENSA MS Standard C13 and N15-labeled recombinant protein (NP_997051)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209655
Predicted MW:	12 kDa
Protein Sequence:	>RC209655 protein sequence Red=Cloning site Green=Tags(s)  MSQKQEEENPAEETGEEKQDTQEKEGILPERAEEAKLKAKYPSLGQKPGGSDFLMKRLQKGWGVIVSYPL SLELKEVLRMKSVEVLLDPFLEVLLLNRSRGEFEI  TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_997051</a>
RefSeq Size:	771
RefSeq ORF:	315
Synonyms:	ARPP-19e
Locus ID:	2029
UniProt ID:	<a href="#">O43768</a>
Cytogenetics:	1q21.3



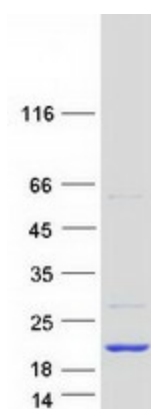
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**Summary:**

The protein encoded by this gene belongs to a highly conserved cAMP-regulated phosphoprotein (ARPP) family. This protein was identified as an endogenous ligand for the sulfonylurea receptor, ABCC8/SUR1. ABCC8 is the regulatory subunit of the ATP-sensitive potassium (KATP) channel, which is located on the plasma membrane of pancreatic beta cells and plays a key role in the control of insulin release from pancreatic beta cells. This protein is thought to be an endogenous regulator of KATP channels. In vitro studies have demonstrated that this protein modulates insulin secretion through the interaction with KATP channel, and this gene has been proposed as a candidate gene for type 2 diabetes. At least eight alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Jul 2008]

**Protein Families:**

Druggable Genome

**Product images:**

Coomassie blue staining of purified ENSA protein (Cat# [TP309655]). The protein was produced from HEK293T cells transfected with ENSA cDNA clone (Cat# [RC209655]) using MegaTran 2.0 (Cat# [TT210002]).