

APIP Blocking Peptide (Center)
Synthetic peptide
Catalog # BP22073c**Specification**

APIP Blocking Peptide (Center) - Product InformationPrimary Accession [Q96GX9](#)**APIP Blocking Peptide (Center) - Additional Information****Gene ID** 51074**Other Names**

Methylthioribulose-1-phosphate dehydratase {ECO:0000255|HAMAP-Rule:MF_03116}, MTRu-1-P dehydratase {ECO:0000255|HAMAP-Rule:MF_03116}, 4.2.1.109 {ECO:0000255|HAMAP-Rule:MF_03116}, APAF1-interacting protein {ECO:0000255|HAMAP-Rule:MF_03116}, hAPIP, APIP {ECO:0000255|HAMAP-Rule:MF_03116}

Target/Specificity

The synthetic peptide sequence is selected from aa 131-142 of HUMAN APIP

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

APIP Blocking Peptide (Center) - Protein Information**Name** APIP {ECO:0000255|HAMAP-Rule:MF_03116}**Function**

Catalyzes the dehydration of methylthioribulose-1-phosphate (MTRu-1-P) into 2,3-diketo-5-methylthiopentyl-1-phosphate (DK-MTP-1-P). Functions in the methionine salvage pathway, which plays a key role in cancer, apoptosis, microbial proliferation and inflammation. May inhibit the CASP1-related inflammatory response (pyroptosis), the CASP9-dependent apoptotic pathway and the cytochrome c-dependent and APAF1-mediated cell death.

Cellular Location

Cytoplasm {ECO:0000255|HAMAP-Rule:MF_03116, ECO:0000269|PubMed:15262985, ECO:0000269|PubMed:23285211}

Tissue Location

Isoform 1 is ubiquitously expressed. Isoform 2 is expressed at lower levels and detected in heart,

brain, pancreas, liver, placenta, skeletal muscle and kidney

APIP Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

APIP Blocking Peptide (Center) - Images

APIP Blocking Peptide (Center) - Background

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APIP Blocking Peptide (Center) - References

Lai C.-H.,et al.Genome Res. 10:703-713(2000).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Taylor T.D.,et al.Nature 440:497-500(2006).
Cho D.-H.,et al.J. Biol. Chem. 279:39942-39950(2004).
Burkard T.R.,et al.BMC Syst. Biol. 5:17-17(2011).