

Product Name: ARIH1

Alternate Names: HHARI, ARI, MOP6, UBCH7BP

Product Code: TE3-136

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

Validated for *in vitro* ubiquitylation assays, E3 ligase activity assays, Cullin-RING ligase (CRL) reconstitution assays, and RBR E3 ligase mechanistic studies. Recombinant ARIH1 is also suitable for ubiquitin transfer and substrate priming assays, E2-E3 compatibility studies, and assay development and inhibitor screening targeting ARIH1- and CRL-dependent ubiquitylation pathways.

Physical Characteristics

Species: Human

Predicted MW (kDa): 64 kDa

Source: *E. coli* BL21

Purity: 85 %

Tag: Untagged

Formulation: 40 mM HEPES, 200 mM NaCl, 10% Glycerol, 2 mM TCEP, 10 μ M Zinc chloride, pH 7.6

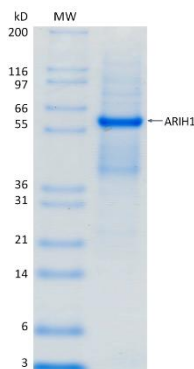
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store $\leq -70^{\circ}\text{C}$ (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE

Protein ID: E3 ubiquitin-protein ligase ARIH1



2 µg ARIH1 run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in Ubiquitylation Assay.

Background

Description

ARIH1 is an RBR E3 ubiquitin ligase that cooperates with activated Cullin-RING ligase complexes to catalyze substrate ubiquitylation through a transthiolation mechanism. Recombinant ARIH1 is suitable for *in vitro* ubiquitylation assays, CRL reconstitution studies, mechanistic investigations of RBR ligases, and targeted protein degradation research.

Accession Number: Q9Y4X5

Entrez Gene ID: ARIH1

Protein Sequence

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GMDSDEGYNYEFDEDEECSEEDSGAEEEEDEDDDEPDDDTLDLGEVELVEPGLGVGGERDGLL
CGETGGGGGSALGPGGGGGGGGGGGGGGPGHEQEEDYRYEVLTAEQILQHMVECIREVNEVIQ
NPATITRILLSHFNWDKEKLMERYFDGNLEKLFACHVINPSKKSRTQMNTRSSAQDMPCQI
CYLNYPNSYFTGLECGHKFCMQCWSEYLTTKIMEEGMGQTISCPAHGCDILVDDNTVMRLITD
SKVKLKYQHLITNSFVECNRLKWCAPDCHHVVKVQYPDAKPVRCKCGRQFCFNCGENWHDP
VKCKWLKKWIKKDDDDSETSNWIAANTKECPKCHVTIEKDGGCNHMCNQNCKAEFCWVCLG
PWEPHGSAWYCNRYNEDDAKAARDAQERSRAALQRYLFYCNRYMNHMQSLRFEHKLYAQVKQ
KMEEMQQHNMSWIEVQFLKKAVDVLCQCRATLMYTYVFAFYLKKNQSIIFENNQADLENATE
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