

NXF2 Protein, Drosophila melanogaster, Recombinant (His)

General Information

Synonyms: Nuclear RNA export factor 2;nxf2

Protein Construction: 573-841 aa

Species: Fruit fly

Expression Host: Baculovirus Insect Cells

Accession: Q9VV73

Molecular Weight: 33.7 kDa (predicted)

AA Sequence:

QKNFLCDTGAYELVGAFLENYLREFENDEFRHNLYKYYSENSIFLTCNYNVVQNHQTPKILQRLSKYNRHAR
NLRNKDYSKASDGVFFGCTYIVEILLQLPRVTHDFHSLQTDVMHYNGKGAVIYVAGLLRDEPPSTRNGHGSKT
DIGGVLLGFSRQFVVTFDEANLGLGKRARRLKIENERLHITNPSKTAIRNAFSVNFDPSPERQAEEDSLDVKDH
KLLLFQEVTGLISTWVTSIVEEADWDFERALKLFIQKNADHEIPDLAFA

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

May be involved in the export of mRNA from the nucleus to the cytoplasm. In the ovaries, forms a complex with

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nxf2, piwi and Nxt1 which acts as effectors of cotranscriptional transposon silencing. On recruitment to a target transcript, interacts with single stranded RNA, thereby anchoring the complex via the nascent target transcript to chromatin and allowing Panx to recruit silencing effectors to establishing repressive heterochromatin at transposon loci. Does not affect piRNA biogenesis. The interaction with Panx stabilizes the nuclear protein complex. Does not bind nucleoporins, but regulates sbr/Nxf1 binding to nucleoporins and, indirectly, transposon exports.

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