



## Product Information

### Dextranase, >150 U/mg

**Cat. No.:** X24-04-XQ203

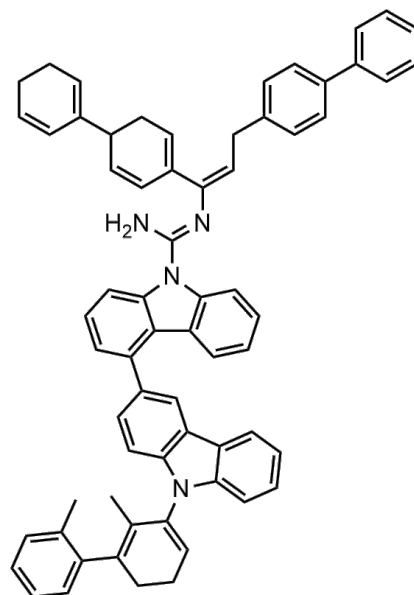
**Size:** 0.5 KU

**CAS Number:** 9025-70-1

**Compound CID:** 167312536

**Synonym:** 9025-70-1; Dextranase

This product is for research use only and is not intended for diagnostic use.



#### Product Information

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| <b>Description</b>       | Dextranase with enzyme activity of 150 U/mg is an endoglycosidase enzyme that specifically cleaves $\alpha$ -1,6-glycosidic linkages in dextran molecules, yielding smaller saccharides, through an acid-base catalysis mechanism.                                                                                                         |
| <b>Molecular Weight</b>  | 905.2                                                                                                                                                                                                                                                                                                                                      |
| <b>Molecular Formula</b> | C <sub>66</sub> H <sub>56</sub> N <sub>4</sub>                                                                                                                                                                                                                                                                                             |
| <b>IUPAC Name</b>        | N<br>'-[1-(4-Cyclohexa-1,5-dien-1-yl)cyclohexa-1,5-dien-1-yl]-3-(4-phenylphenyl)prop-1-enyl]-4-[9-[6-methyl-5-(2-methylphenyl)cyclohexa-1,5-dien-1-yl]carbazol-3-yl]carbazole-9-carboximidamide                                                                                                                                            |
| <b>InChI</b>             | InChI=1S/C66H56N4/c1-44-17-9-10-22-53(44)54-25-15-29-60(45(54)2)69-61-27-13-11-23-56(61)58-43-52(40-42-63(58)69)55-26-16-30-64-65(55)57-24-12-14-28-62(57)70(64)66(67)68-59(51-38-36-50(37-39-51)48-20-7-4-8-21-48)41-33-46-31-34-49(35-32-46)47-18-5-3-6-19-47/h3,5-7,9-14,16-24,26-32,34-36,38-43,50H,4,8,15,25,33,37H2,1-2H3,(H2,67,68) |
| <b>InChI Key</b>         | IYKSBVLUFFSST-UHFFFAOYSA-N                                                                                                                                                                                                                                                                                                                 |
| <b>Canonical SMILES</b>  | CC1=CC=CC=C1C2=C(C(=CCC2)N3C4=C(C=C(C=C4)C5=C6C7=CC=CC=C7N(C6=CC=C5)C(=N)C(=CCC8=CC=C(C=C8)C9=CC=CC=C9)C1=CCC(C=C1)C1=CCCC=C1)N)C1=CC=CC=C13)C                                                                                                                                                                                             |
| <b>Activity</b>          | >150 U/mg                                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>      | Dextranase with an enzyme activity of >150 U/mg can be used for the study of the enzymatic breakdown of dextran polysaccharides.                                                                                                                                                                                                           |



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**Storage**

Store at 4°C.

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