

NCI thesaurus

Version: 13.02d (Release date: 2013-02-25-08:00)

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Fermented Wheat Germ Extract (Code C64763)

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Terms & Properties

Preferred Name: Fermented Wheat Germ Extract

Definition: An extract of fermented wheat germ containing a concentrated, standardized amount of methoxy-substituted benzoquinones with immunomodulatory and potential antineoplastic activities. Fermented wheat germ extract (FWGE) inhibits the activities of several enzymes involved in de novo nucleic acid synthesis and in supplying the dNTP pool required for DNA replication. This agent also induces caspase-3- mediated inactivation of poly(ADP)ribose polymerase (PARP), a key enzyme in DNA repair that is overexpressed in many cancers; cleavage of PARP prevents DNA repair and induces apoptosis. The benzoquinones may contribute to the immunomodulatory effects of FWGE, down-regulating major histocompatibility complex class I (MHC-1) protein on the surface of cancer cells, allowing natural killer (NK) cell surveillance; and up-regulating the expression of intracellular adhesion molecule 1 (ICAM-1) on tumor endothelial cells.

Label: Fermented Wheat Germ Extract

NCI Thesaurus Code: C64763 ([Search for linked caDSR metadata](#))

NCI Metathesaurus CUI: C0756278 ([see NCI Metathesaurus info](#))

Synonyms & Abbreviations: ([see Synonym Details](#))

Avemar

Fermented Wheat Germ Extract

FWGE

External Source Codes:

PDQ Closed Trial Search ID	529839 (check for NCI PDQ closed clinical trial info)
PDQ Open Trial Search ID	529839 (check for NCI PDQ open clinical trial info)
UMLS CUI	C0756278

Other Properties:

code	C64763
Legacy_Concept_Name	Fermented_Wheat_Germ_Extract
Semantic_Type	Organic Chemical

Other Properties:

code	C64763
Legacy_Concept_Name	Fermented_Wheat_Germ_Extract
Semantic_Type	Organic Chemical
Semantic_Type	Pharmacologic Substance

Additional Concept Data:

Defined Fully by Roles: No

URL: <http://ncit.nci.nih.gov/ncitbrowser/ConceptReport.jsp?dictionary=NCI%20Thesaurus&code=C64763>

Synonym Details

Term	Source	Type	Code
Avemar	NCI	BR	
Fermented Wheat Germ Extract			
Fermented Wheat Germ Extract	NCI	PT	
FWGE	NCI	AB	

Relationships with other NCI Thesaurus Concepts

Parent Concepts:

- [Cyclooxygenase Inhibitor](#)
- [Poly \(ADP-Ribose\) Polymerase Inhibitor](#)
- [Ribonucleotide Reductase Inhibitor](#)

Child Concepts: (none)

Role Relationships:

(Roles are true for current concept and descendants, may be inherited from parent(s).)

Chemical_Or_Drug_Affects_Gene_Product	Poly(ADP Ribose) Polymerase
Chemical_Or_Drug_Affects_Gene_Product	Ribonucleotide Reductase
Chemical_Or_Drug_Has_Mechanism_Of_Action	Enzyme Inhibition
Chemical_Or_Drug_Has_Physiologic_Effect	DNA Synthesis Inhibition
Chemical_Or_Drug_Has_Physiologic_Effect	Positive Regulation of Apoptosis

Associations: (none)

Inverse Role Relationships: (none)

Inverse Associations: (none)

Mapping relationships:

[see Mappings](#)

Mapping Details

Mapping through NCI Metathesaurus:

[C0756278](#)

Maps To:

Maps From:

Mapping Source: PDQ2010_08_06_TO_NCI2011_12E

Source	Source Code	Source Name	REL	Target	Target Code	Target Name
PDQ	CDR0000529839	fermented wheat germ extract	SY	NCI	C64763	Fermented Wheat Germ Extract