**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 benzoxquinones 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 benzoxquinones may contribute to the immunomodulatory effects of FWGE, down-regulating major histocompatibility complex class I (MHC-I) 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](#))
- Avmar
- 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

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- **code:** C64763
- **Legacy_Concept_Name:** Fermented_Wheat_Germ_Extract
- **Semantic_Type:** Organic Chemical
- **Semantic_Type:** Pharmacologic Substance
### Synonym Details

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### Relationships with other NCI Thesaurus Concepts
- Cyclooxygenase Inhibitor
- Poly (ADP-Ribose) Polymerase Inhibitor
- Ribonucleotide Reductase Inhibitor

### Parent Concepts:
- (none)

### Role Relationships:
- (none)

### Child Concepts:
- (none)

### Associations:
- (none)

### Inverse Role Relationships:
- (none)

### Inverse Associations:
- (none)

### Mapping relationships:
- see Mappings

### Mapping Details
- Mapping through NCI Metathesaurus: C0756278

### Maps To:

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NCI Thesaurus Concepts
- Defined Fully by Roles: No